

Coastal Flood Hazard Analysis & Mapping



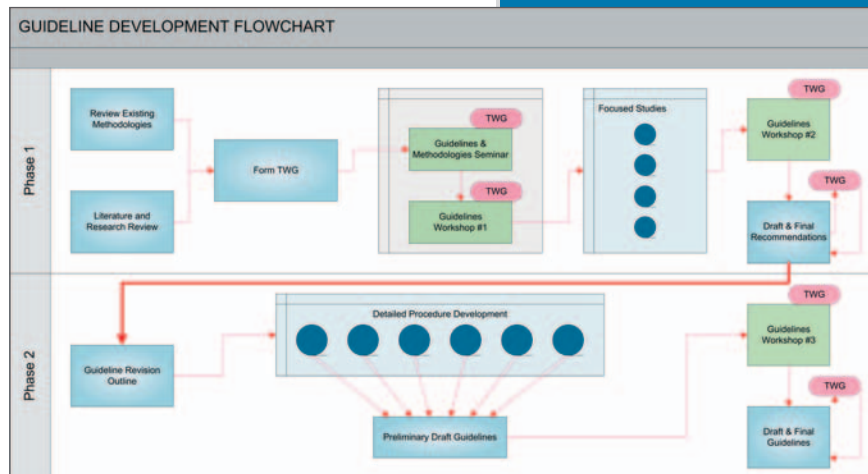
OBJECTIVE

The objective of the Coastal Flood Hazard Analysis and Mapping project is to evaluate and update existing guidelines for analyzing and mapping coastal flood hazards on the Atlantic and Gulf Coasts, and to develop new guidelines for the Pacific Coast of the conterminous United States.

PRODUCT PROCESS

The following two-phase process is underway to develop the Final Guidelines for Coastal Flood Hazard Analysis and Mapping.

- PHASE 1
 - Existing Methods and Guidelines Review
 - Literature and Methods Research
 - Formation of Technical Working Group (TWG)
 - Technical Presentations on the State-of-the-Science in Coastal Processes
 - Existing Guidelines and Methods Workshop 1
 - Initial 11 Focused Studies Based on Various Coastal Processes and Study Procedures
 - Guidelines Recommendation and Improvement Workshop 2
 - Phase 1 Summary Report and Recommendations for all coasts



- PHASE 2
 - New Guidelines Outline Developed for the Pacific Coast
 - Development of Detailed Study Procedures
 - Workshop 3 and Preliminary Pacific Guidelines
 - Draft and Final Pacific Guidelines

PRIMARY USES & BENEFITS

- New guidelines will facilitate consistent and accurate coastal flood hazards analyses and mapping for FEMA Mapping Partners
- Focused studies will evaluate the existing and new guidelines as they apply to all three major coastlines in Phase 1
- Additional technical studies to develop new draft guidelines for the Pacific Coast in Phase 2

Figure 1. The product process.

Coastal Flood Hazard Analysis & Mapping



SCHEDULE

October 2003	Project Initiation
May 2004	Phase 1 Completion
September 2004	Phase 2 Completion

APPROACH AND PARTICIPANTS

The project approach includes two key elements to ensure that the project can be completed rapidly and effectively:

- 1) Assembling a team of technical experts with experience with study procedures, coastal processes, and their effects in different geographic regions of the country; and
- 2) Conducting the project in two phases to evaluate the existing guidelines for the Atlantic and Gulf coasts and develop new draft guidelines for the Pacific Coast.

The participants to date include Federal agencies, academic institutes, and coastal and oceanographic engineering firms around the country:

PARTICIPANT	LOCATION
FEMA	Headquarters; Regions I, II, III, IV, VI, IX, X
Northwest Hydraulic Consultants	Sacramento, CA
NOAA Pacific Marine Environmental Laboratory	Seattle, WA
US Geological Survey	Menlo Park, CA
USACE Coastal & Hydraulics Laboratory	Vicksburg, MS
Scripps Institute of Oceanography	La Jolla, CA
University of Florida	Gainesville, FL
Oregon State University	Corvallis, OR
University of Southern California	Los Angeles, CA
HDR Engineering, Inc.	Portland, OR and Folsom, CA
Philip Williams & Associates, Ltd.	San Francisco, CA
Nolte Associates, Inc.	San Diego, CA
Danish Hydraulic Institute	Cardiff, CA and Horsholm, Demark
Independent Consultants	Vista, CA
C. Jones & Associates	Durham, NC
Taylor Engineering	Jacksonville, FL
Watershed Concepts	Jacksonville, FL
Dewberry	Fairfax, VA
PBS&J	Beltsville, MD
Noble Consultants, Inc.	Novato, CA
Applied Coastal Research and Engineering, Inc.	Mashpee, MA
Computational Hydraulics and Transport, Inc.	Edwards, MS
Michael Baker, Jr., Inc.	Alexandria, VA